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- ☐ 1. **Design problems of spacecraft for communication missions**
Collette, R.C.; Herdan, B.L.;
[Proceedings of the IEEE](#)
Volume 65, [Issue 3](#), March 1977 Page(s):342 - 356
Summary: The process of designing a spacecraft for geosynchronous commu the point where the mission and key payload performance requirements have description of the launch and injection process, the constr.....
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- ☐ 2. **The evolution of synthetic aperture radar systems and their progression**
Way, J.; Smith, E.A.;
[Geoscience and Remote Sensing, IEEE Transactions on](#)
Volume 29, [Issue 6](#), Nov. 1991 Page(s):962 - 985
Digital Object Identifier 10.1109/36.101374
Summary: The authors describe the evolution of the spaceborne imaging rad SAR, through the SIR-A, SIR-B, and SIR-C/X-SAR missions, to the Earth Obs which is scheduled for launch as part of Eos in the late 1990.....
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- ☐ 3. **Nicholas Minorsky and the automatic steering of ships**
Bennett, S.;
[Control Systems Magazine, IEEE](#)
Volume 4, [Issue 4](#), Nov 1984 Page(s):10 - 15
Summary: Not available.....
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- ☐ 4. **A triaxial coil receiver system for the study of subsurface electromagnet**
Thayer, D.; Scheer, L.; Tossman, B.;
[Oceanic Engineering, IEEE Journal of](#)
Volume 7, [Issue 2](#), April 1982 Page(s):75 - 82
Summary: A triaxial set of underwater receiving coils was developed and test

was used jointly with an underwater, calibrated, horizontal, electric dipole source for low-frequency electromagnetic propagation. This paper.....

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- ☐ **5. Vibration induced in towed linear underwater array cables**
Ketchman, J.;
[Oceanic Engineering, IEEE Journal of](#)
Volume 6, [Issue 3](#), Jul 1981 Page(s):77 - 87
Summary: Towed linear arrays of hydrophones are used in various applications for oceanographic prospecting. Tow cable vibration is capable of causing output in the towed array factors limiting acoustic sensitivity is self-noise, etc.....
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- ☐ **6. Multivariable self-tuning autopilots for autonomous and remotely operated underwater vehicles**
Goheen, K.R.; Jefferys, E.R.;
[Oceanic Engineering, IEEE Journal of](#)
Volume 15, [Issue 3](#), July 1990 Page(s):144 - 151
Digital Object Identifier 10.1109/48.107142
Summary: The effectiveness of subsea intervention has been found to be dependent on the dynamics of an autonomous underwater vehicle's (AUV's) or remotely operated underwater vehicle's positioning system. However, these vehicle's dynamics vary.....
[AbstractPlus](#) | Full Text: [PDF\(596 KB\)](#) IEEE JNL
[Rights and Permissions](#)
- ☐ **7. The practical implementation of electronic stabilization for sector scanning sonar**
Carey-Smith, C.;
[Oceanic Engineering, IEEE Journal of](#)
Volume 18, [Issue 2](#), April 1993 Page(s):123 - 129
Digital Object Identifier 10.1109/48.219534
Summary: The natural motion of a ship at sea produces undesirable effects on sonar. To overcome this problem some form of stabilization is desirable. A practical sonar system uses image processing techniques to stabilize the displayed image.....
[AbstractPlus](#) | Full Text: [PDF\(528 KB\)](#) IEEE JNL
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- ☐ **8. Sidescan sonar image processing techniques**
Cervenka, P.; de Moustier, C.;
[Oceanic Engineering, IEEE Journal of](#)
Volume 18, [Issue 2](#), April 1993 Page(s):108 - 122
Digital Object Identifier 10.1109/48.219531
Summary: A four-step processing sequence is described to produce image maps from segments of a sidescanned acoustic imaging survey of a given seafloor area. The sequence consists for each ping of acoustic backscatter levels versus horizontal range.....
[AbstractPlus](#) | Full Text: [PDF\(2032 KB\)](#) IEEE JNL
[Rights and Permissions](#)
- ☐ **9. An expert system shell for aerospace applications**
Prasad, B.E.; Perraju, T.S.; Uma, G.; Umarani, P.;
[Expert, IEEE \[see also IEEE Intelligent Systems and Their Applications\]](#)
Volume 9, [Issue 4](#), Aug. 1994 Page(s):56 - 64
Digital Object Identifier 10.1109/64.336148
Summary: REX is an object-oriented, asynchronous, real-time expert system shell that processes continuous streams of data, represent temporal knowledge, and perform processing on the data. It has been developed to meet the challenges of the dynamic aerospace environment.....
[AbstractPlus](#) | Full Text: [PDF\(900 KB\)](#) IEEE JNL
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- ☐ **10. Spatial filtering for speckle reduction, contrast enhancement, and texture analysis of SAR images**

Sauter, D.; Parson, L.;

Oceanic Engineering, IEEE Journal of

Volume 19, Issue 4, Oct. 1994 Page(s):563 - 576

Digital Object Identifier 10.1109/48.338392

Summary: This paper reports a comparative study of digital enhancement techniques to improve the geologic interpretation of side-scan sonar GLORIA images. The basic method compares the phases of the signals returning from the seafloor with window sizes of 3x3-7x7
AbstractPlus | Full Text: PDF(1380 KB) IEEE JNL
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11. Swath bathymetry with GLORIA

Le Bas, T.P.; Somers, M.L.; Campbell, J.M.; Beale, R.;

Oceanic Engineering, IEEE Journal of

Volume 21, Issue 4, Oct. 1996 Page(s):545 - 553

Digital Object Identifier 10.1109/48.544064

Summary: For many years, GLORIA has been producing sonar images of the mid-1980's, the SeaMARC II system came to prominence producing depth and bathymetry images. The basic method compares the phases of the signals returning from the seafloor with window sizes of 3x3-7x7
AbstractPlus | References | Full Text: PDF(1172 KB) IEEE JNL
Rights and Permissions



12. Shipborne GPS attitude determination during MMST-93

Lachapelle, G.; Cannon, M.E.; Lu, G.; Loncarevic, B.;

Oceanic Engineering, IEEE Journal of

Volume 21, Issue 1, Jan. 1996 Page(s):100 - 104

Digital Object Identifier 10.1109/48.485206

Summary: The attitude parameters of a ship underway were measured using channel NovAtel Model 951 narrow-correlator-spacing receivers. These C/A codes rates of up to 10 Hz and maintain effective carrier phase lock.....
AbstractPlus | References | Full Text: PDF(600 KB) IEEE JNL
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13. Modeling and identification of open-frame variable configuration unmanned underwater vehicle

Caccia, M.; Indiveri, G.; Veruggio, G.;

Oceanic Engineering, IEEE Journal of

Volume 25, Issue 2, April 2000 Page(s):227 - 240

Digital Object Identifier 10.1109/48.838986

Summary: A lumped parameter model of open-frame unmanned underwater vehicle the effects of propeller-hull and propeller-propeller interactions is presented. The model parameters consists of a least squares method using.....
AbstractPlus | References | Full Text: PDF(880 KB) IEEE JNL
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14. ISAR imaging of targets at low elevation angles

Berizzi, F.;

Aerospace and Electronic Systems, IEEE Transactions on

Volume 37, Issue 2, April 2001 Page(s):419 - 435

Digital Object Identifier 10.1109/7.937459

Summary: The problem of inverse synthetic aperture radar (ISAR) image reconstruction at low elevation angle is considered. In this geometric condition the main causes affecting ISAR image are the multipath effect due to the reflection.....
AbstractPlus | Full Text: PDF(1604 KB) IEEE JNL
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15. Damage-mitigating control of aircraft for enhanced structural durability

Caplin, J.; Ray, A.; Joshi, S.M.;

Aerospace and Electronic Systems, IEEE Transactions on

Volume 37, Issue 3, July 2001 Page(s):849 - 862

Digital Object Identifier 10.1109/7.953241

Summary: The concept and a design methodology for robust damage-mitigating aircraft is presented. The goal of DMC is to simultaneously achieve high performance and the design procedure is based on damage mitigation analysis.....
AbstractPlus | Full Text: PDF(1604 KB) IEEE JNL
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- ☐ **16. High-resolution ISAR imaging of maneuvering targets by means of the range-Doppler technique: modeling and performance analysis**
Berizzi, F.; Mese, E.D.; Diani, M.; Martorella, M.;
[Image Processing, IEEE Transactions on](#)
Volume 10, Issue 12, Dec. 2001 Page(s):1880 - 1890
Digital Object Identifier 10.1109/83.974573
Summary: Very high resolution inverse synthetic aperture radar (ISAR) imaging is a complicated task. In fact, the conventional range-Doppler (RD) ISAR technique properly when target motions generate terms higher than the first-order terms.
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL
[Rights and Permissions](#)
- ☐ **17. Space-based radar signal processing baselines for air, land and sea applications**
Nohara, T.J.; Weber, P.; Premji, A.;
[Electronics & Communication Engineering Journal](#)
Volume 12, Issue 5, Oct. 2000 Page(s):229 - 239
Summary: Space-based radar can provide wide-area surveillance and theatre target detection, the air, on land, and at sea. This paper describes the airborne and ground-based problems, and examines environmental and system issues that affect the radar.
[AbstractPlus](#) | Full Text: [PDF\(1084 KB\)](#) IET JNL
- ☐ **18. Handling and towing the long range side scan sonar vehicle "GLORIA" on the OCEANS**
Edge, R.;
[OCEANS](#)
Volume 6, Part 1, Aug 1974 Page(s):307 - 315
Summary: The paper considers the special problems associated with handling and recovery of the large side scan sonar vehicle known as "G.L.O.R.I.A.", (Geological Research Ship), using R.R.S. "Discovery". (1) (2) A general specification is given.
[AbstractPlus](#) | Full Text: [PDF\(1024 KB\)](#) IEEE CNF
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- ☐ **19. Coriolis Program: A Review of the Status of the Ocean Turbine Energy System**
Lissamen, P.; Radkey, R.;
[OCEANS](#)
Volume 11, Sep 1979 Page(s):559 - 565
Summary: The goal of the Coriolis Program is to develop an energy system that can be used via an array of large ducted turbines moored about 30 km east of Miami in the Florida Stream. Numerous studies have been made of the technology.
[AbstractPlus](#) | Full Text: [PDF\(648 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- ☐ **20. The Deployment and Operational Performance of the DBI Data Buoy System Approaches to the British Isles**
Rusby, S.; Waites, S.;
[OCEANS](#)
Volume 12, Sep 1980 Page(s):548 - 553
Summary: The DBI data buoy project was started in 1974, and during the test period the buoy spent 1 1/2 years in the North Sea. This present paper describes the operations followed, from 1978 onwards, during which time the buoy has been in use.
[AbstractPlus](#) | Full Text: [PDF\(640 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- ☐ **21. Simulation on the motion characteristics of an unmanned untethered submersible**
Tanaka, N.; Mochizuki, M.; Oda, T.;
[Unmanned Untethered Submersible Technology, Proceedings of the 1985 4th International Conference on](#)
Volume 4, Jun 1985 Page(s):198 - 222
Summary: Not available.....

[AbstractPlus](#) | Full Text: [PDF\(1056 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **22. Ship 3D model estimation from an ISAR image sequence**
Cooke, T.;
[Radar Conference, 2003. Proceedings of the International](#)
3-5 Sept. 2003 Page(s):36 - 41
Digital Object Identifier 10.1109/RADAR.2003.1278706
Summary: ISAR imagery measures range and radial velocity of scatterers from wave action, a ship has constantly changing roll, yaw and pitch angular velocity. ISAR images quite changeable from frame to frame. A method.....
[AbstractPlus](#) | Full Text: [PDF\(431 KB\)](#) IEEE CNF
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- ☐ **23. Scatterer labelling estimation for 3D model reconstruction from an ISAR**
Cooke, T.;
[Radar Conference, 2003. Proceedings of the International](#)
3-5 Sept. 2003 Page(s):315 - 320
Summary: In the previous paper (Ship 3D model estimation, T.Cooke, RADA described for estimating a 3D point scatterer model from a sequence of 2D IS knowledge of the ship motion. It assumed, however, that each scatterer
[AbstractPlus](#) | Full Text: [PDF\(472 KB\)](#) IEEE CNF
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- ☐ **24. Guidance and control of the SIRENE underwater vehicle: from system de**
Oliverira, P.; Silvestre, C.; Aguiar, P.; Pascoal, A.;
[OCEANS '98 Conference Proceedings](#)
Volume 2, 28 Sept.-1 Oct. 1998 Page(s):1043 - 1048 vol.2
Digital Object Identifier 10.1109/OCEANS.1998.724395
Summary: The paper describes the implementation and testing at sea of the systems of SIRENE, an autonomous underwater shuttle for the automatic deep down to depths of 4000 meters.....
[AbstractPlus](#) | Full Text: [PDF\(556 KB\)](#) IEEE CNF
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- ☐ **25. INS-based identification of quay-crane spreader yaw**
Louda, M.A.; Rye, D.C.; Dissanayake, M.W.M.G.; Durrant-Whyte, H.F.;
[Robotics and Automation, 1998. Proceedings. 1998 IEEE International Conference on](#)
Volume 4, 16-20 May 1998 Page(s):3310 - 3315 vol.4
Digital Object Identifier 10.1109/ROBOT.1998.680949
Summary: A crucial problem in crane control is to identify exactly the position in space. This paper describes a new non-contact method for determining the means of an inertial navigation system (INS) and a Kalman filter.....
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